BRUHAT BANGALORE MAHANAGARA PALIKE

2nd & final L. Ramesh.

Name of work:- Package-02

1.Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07, Byatarayanapura

2.Improvements to drains of 15th cross Jakkur layout and construction of rain water units and desilting of drains in ward no.07 byatarayanapura.

Est Cost:- 133.00 lakhs

Pre measurements

BRUHAT BANGALORE MAHANAGARA PALIKE

Premeasurements sheets

Name of the work : Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains in ward no.07 Byatarayanapura

Name of Agency : Ramesh U

JOB CODE: 007-19-000012 AND 007-20-000074

work order amount: 12468819.61 (Excluding GST)

	Details		No	L	B	D	Qty
	Item No.1	Removing and refixing stone slabs of drains and pointing in CM.					
	Pampa extension						
	5th main road	Sqm					
	0-30	1*2	2	25.00	0.75		37.50
	30-60	1*2	2	26.00	0.75		39.00
	60-90	1*2	2	27.00	0.75		40.50
	90-120	1*2	2	28.00	0.75		42.00
	120-150	1*2	2	30.00	0.75		45.00
	150-180	1*2	2	29.00	0.75		43.50
	180-210	1*2	2	25.00	0.75		37.50
	210-240	1*2	2	22.00	0.75		33.00
	deduction- culvert length						
			2	25.00	1.50		75.00
	4th main road						
	0-30	1*2	2	25.00	0.75		37.50
	30-60	1*2	2	26.00	0.75		39.00
	60-90	1*2	2	27.00	0.75		40.50
	90-120	1*2	2	28.00	0.75		42.00
	120-150	1*2	2	30.00	0.75		45.00
	150-180	1*2	2	29.00	0.75		43.50
	180-210	1*2	2	25.00	0.75		37.50
	210-240	1*2	2	22.00	0.75		33.00
	deduction- culvert length						
			2	7.00	1.50		21.00
	5th cross road						
	0-30	1*2	2	28.00	0.75		42.00
	30-60	1*2	2	25.00	0.75		37.50
	60-90	1*2	2	25.00	0.75		37.50
	90-120	1*2	2	28.00	0.75		42.00
	120-150	1*2	2	24.00	0.75		36.00
	150-165	1*2	2	10.00	0.75		15.00
	deduction- culvert length						
			2	5.00	1.50		15.00
							957.00

01/01/21

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Assistant Executive Engineer

	Amruthanagara C sector						
	main road						
	0-30	1*2	2	25.00	0.75		37.50
	30-60	1*2	2	26.00	0.75		39.00
	60-90	1*2	2	26.00	0.75		39.00
	90-120	1*2	2	21.00	0.75		31.50
	120-150	1*2	2	25.00	0.75		37.50
	150-165	1*2	2	15.00	0.75		22.50
	5th cross						
	0-30	1*2	2	28.00	0.75		42.00
	30-60	1*2	2	28.00	0.75		42.00
	60-90	1*2	2	27.00	0.75		40.50
	90-120	1*2	2	16.00	0.75		24.00
	120-150	1*2	2	20.00	0.75		30.00
	5th A cross						
	0-25	1*2	2	25.00	0.75		37.50
							423.00
	Sahakaranagara A block						
	23rd main road	1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	10.00	0.90		18.00
	Cross road	1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	15.00	0.90		27.00
	22nd main road	1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	23.00	0.90		41.40
	21st main road	1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	6.00	0.90		10.80
	20th main road	1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	15.00	0.90		27.00
	19th main road	1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00

1690.20

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
	18th main road	1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
	17th main road	1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
	15th main road	1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
	16th main road	1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
		1*2	2	30.00	0.90		54.00
							3310.20
					Total Sum		4690.20
					Qty Ltd to		4397.40

C4 Rec 11/1/21

620.00 11/01/21

Asstt/Jr. A.E.O.

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Assistane Executive Engineer

Item No.02 (01)		Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.					
	Desilting of drains						
	Pampa extension						
	5th main road						
	0-30	1*2	2.00	25.00	0.60	0.60	18.00
	30-60	1*2	2.00	26.00	0.60	0.60	18.72
	60-90	1*2	2.00	27.00	0.60	0.60	19.44
	90-120	1*2	2.00	28.00	0.60	0.60	20.16
	120-150	1*2	2.00	30.00	0.60	0.60	21.60
	150-180	1*2	2.00	29.00	0.60	0.60	20.88
	180-210	1*2	2.00	25.00	0.60	0.60	18.00
	210-240	1*2	2.00	22.00	0.60	0.60	15.84
	deduction- culvert length						
			2.00	25.00	1.50	0.60	45.00
	4th main road						**107.64**
	0-30	1*2	2.00	25.00	0.60	0.60	18.00
	30-60	1*2	2.00	26.00	0.60	0.60	18.72
	60-90	1*2	2.00	27.00	0.60	0.60	19.44
	90-120	1*2	2.00	28.00	0.60	0.60	20.16
	120-150	1*2	2.00	30.00	0.60	0.60	21.60
	150-180	1*2	2.00	29.00	0.60	0.60	20.88
	180-210	1*2	2.00	25.00	0.60	0.60	18.00
	210-240	1*2	2.00	22.00	0.60	0.60	15.84
	deduction- culvert length						
		0	2.00	7.00	1.50	0.60	12.60
	5th cross road						**140.04**
	0-30	1*2	2.00	28.00	0.60	0.60	20.16
	30-60	1*2	2.00	25.00	0.60	0.60	18.00
	60-90	1*2	2.00	25.00	0.60	0.60	18.00
	90-120	1*2	2.00	28.00	0.60	0.60	20.16
	120-150	1*2	2.00	24.00	0.60	0.60	17.28
	150-165	1*2	2.00	10.00	0.60	0.60	7.20
	deduction- culvert length						
			2.00	5.00	1.50	0.60	9.00
							91.80
	Amruthanagara C sector						
	main road						
	0-30	1*2	2.00	25.00	0.60	0.60	18.00
	30-60	1*2	2.00	26.00	0.60	0.60	18.72
	60-90	1*2	2.00	26.00	0.60	0.60	18.72
	90-120	1*2	2.00	21.00	0.60	0.60	15.12
	120-150	1*2	2.00	25.00	0.60	0.60	18.00
	150-165	1*2	2.00	15.00	0.60	0.60	10.80
	5th cross						
	0-30	1*2	2.00	28.00	0.60	0.60	20.16
	30-60	1*2	2.00	28.00	0.60	0.60	20.16
	60-90	1*2	2.00	27.00	0.60	0.60	19.44
	90-120	1*2	2.00	16.00	0.60	0.60	11.52

C & R 21/1/21

C & R 3/1/21

02/01/21

170.64

Assistant Engineer

Assistant Executive Engineer

Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

	120-150	1*2	2.00	20.00	0.60	0.60	14.40
	5th A cross						
	0-25	1*2	2.00	25.00	0.60	0.60	18.00
	Sahakaranagara A block						
	23rd main road	1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	10.00	0.60	0.60	7.20
	Cross road	1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	15.00	0.60	0.60	10.80
	22nd main road	1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	23.00	0.60	0.60	16.56
	21st main road	1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	6.00	0.60	0.60	4.32
	20th main road	1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	15.00	0.60	0.60	10.80
	19th main road	1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
	18th main road	1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
	17th main road	1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60
		1*2	2.00	30.00	0.60	0.60	21.60

03/01/21

989.28.

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

			1*2	2.00	30.00	0.60	0.60	21.60
			1*2	2.00	30.00	0.60	0.60	21.60
	15th main road		1*2	2.00	30.00	0.60	0.60	21.60
			1*2	2.00	30.00	0.60	0.60	21.60
			1*2	2.00	30.00	0.60	0.60	21.60
			1*2	2.00	30.00	0.60	0.60	21.60
			1*2	2.00	30.00	0.60	0.60	21.60
			1*2	2.00	30.00	0.60	0.60	21.60
			1*2	2.00	30.00	0.60	0.60	21.60
	16th main road		1*2	2.00	30.00	0.60	0.60	21.60
			1*2	2.00	30.00	0.60	0.60	21.60
			1*2	2.00	30.00	0.60	0.60	21.60
			1*2	2.00	30.00	0.60	0.60	21.60
			1*2	2.00	30.00	0.60	0.60	21.60
			1*2	2.00	30.00	0.60	0.60	21.60
			1*2	2.00	30.00	0.60	0.60	21.60
								1527.12
						Qty A		1866.60
	RCC Drain- 15th cross							
	RHS		1	0-30	30.00	0.95	1.00	28.5
			1	30-60	30.00	0.95	1.00	28.5
			1	60-90	30.00	0.95	1.00	28.5
			1	90-120	30.00	0.95	1.00	28.5
			1	120-150	30.00	0.95	1.00	28.5
			1	150-180	30.00	0.95	1.00	28.5
			1	180-210	30.00	0.95	1.00	28.5
			1	210-213	3.00	0.95	1.00	2.85
	Extra length		1	3	3.00	0.95	1.00	8.55
	LHS		1	0-30	30.00	0.95	1.00	28.5
			1	30-60	30.00	0.95	1.00	28.5
			1	60-90	30.00	0.95	1.00	28.5
			1	90-120	30.00	0.95	1.00	28.5
			1	120-150	30.00	0.95	1.00	28.5
			1	150-180	30.00	0.95	1.00	28.5
			1	180-210	30.00	0.95	1.00	28.5
			1	210-213	3.00	0.95	1.00	2.85
								413.25
	Rain water units (3.14*1.5*1.5)/4							
	Sahakaranagara 13th mai		2	1.77			2	7.08
	Near Prashanthi hotel		2	1.77			2	7.08
	Jakkur 15th cross		8	1.76			2	28.16
	Amruthanagara Maruthi		3	1.77			2	10.62
								52.94
						Total Qty		2332.79
						Qty Ltd to		2229.95

12/1/21

388.80

12/01/21

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli ion
Bruhat Bangalore ara Palike
Bangalore

Item No.10	Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification					2229.95	~~2332.79~~
Item name:-8	Laying Reinforced cement concrete pipe NP2 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. MORTH Specification No. 2900 B. 1200 mm dia						
Rain water units (3.14*1.5*1.5)/4							
Sahakaranagara 13th main		2	3				6.00
Near Prashanthi hotel		2	3				6.00
Jakkur 15th cross		8	3				24.00
Amruthanagara Maruthi farm		3	3				9.00
						Total -m	45.00
Item name:-9	Providing 100mm and down size nominal size						
RWH (3.14/4*0.6*0.6=0.208)							
Sahakaranagara 13th mai		2	0.28		1.00		0.56
Near Prashanthi hotel		2	0.28		1.00		0.56
Jakkur 15th cross		8	0.28		1.00		2.24
Amruthanagara Maruthi		3	0.28		1.00		0.84
		15				Total-cum	4.20
Item name:-10	Providing 40mm and down size nominal size						
RWH (3.14/4*0.6*0.6=0.208)							
Sahakaranagara 13th mai		2	0.28		0.40		0.22
Near Prashanthi hotel		2	0.28		0.40		0.22
Jakkur 15th cross		8	0.28		0.40		0.90
Amruthanagara Maruthi		3	0.28		0.40		0.34
						Total-cum	1.68
Item name:-11	Providing 20mm and down size nominal size						
RWH (3.14/4*0.6*0.6=0.208)							
Sahakaranagara 13th main		2	0.28		0.4		0.22
Near Prashanthi hotel		2	0.28		0.4		0.22
Jakkur 15th cross		8	0.28		0.4		0.90
Amruthanagara Maruthi farm		3	0.28		0.4		0.34
						Total-cum	1.68

Assistant Engineer

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Item name:-12 15	Providing Fine aggrgate 2.36mm nominal size					
RWH (3.14/4*0.6*0.6=0.208)						
Sahakaranagara 13th main	2	0.28			0.30	0.17
Near Prashanthi hotel	2	0.28			0.30	0.17
Jakkur 15th cross	8	0.28			0.30	0.67
Amruthanagara Maruthi farm	3	0.28			0.30	0.25
				Total-cum		1.26
Item name:-13 27	Providing and fixing MS Garting 260x260mm					
RWH (3.14/4*0.6*0.6=0.208)		2.0				2.00
Sahakaranagara 13th main		2.0				2.00
Near Prashanthi hotel		8.0				8.00
Jakkur 15th cross		3.0				3.00
RCC DRAIN 15TH CROSS		85.0				85.00
				Total-cum		100.00
Item No.03 02	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration inlcuding curing for 14 days including cost of all materials labour, HOM curing, form works, scaffolding and centering complete as per specification					
RCC Drain- 15th cross						
RHS	1	0-30	30.00	0.95	0.15	4.28
	1	30-60	30.00	0.95	0.15	4.28
	1	60-90	30.00	0.95	0.15	4.28
	1	90-120	30.00	0.95	0.15	4.28
	1	120-150	30.00	0.95	0.15	4.28
	1	150-180	30.00	0.95	0.15	4.28
	1	180-210	30.00	0.95	0.15	4.28
	1	210-213	3.00	0.95	0.15	0.43
	1	3	3.00	0.95	0.15	1.28
Extra length						
LHS	1	0-30	30.00	0.95	0.15	4.28
	1	30-60	30.00	0.95	0.15	4.28
	1	60-90	30.00	0.95	0.15	4.28
	1	90-120	30.00	0.95	0.15	4.28
	1	120-150	30.00	0.95	0.15	4.28
	1	150-180	30.00	0.95	0.15	4.28
	1	180-210	30.00	0.95	0.15	4.28
	1	210-213	3.00	0.95	0.15	0.43
					Qty	61.99

Assistant Engineer

Assistant Executive Engineer
Kodige... Division
Bruhat Banga... Nagara Pal...
Bang...e - 560 092

Item No.5	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications

						L	no of rods	le of u bar	Total length	
									10mm	8mm
	Steel	Main rod	0-30	1	30	345	1.85	638.25		
		distribution		1	30	7	30			210
		Main rod	30-60	1	30	345	1.85	638.25		
		distribution		1	30	7	30			210
		Main rod	60-90	1	30	345	1.9	655.5		
		distribution		1	30	7	30			210
		Main rod	90-120	1	30	345	1.9	655.5		
		distribution		1	30	7	30			210
		Main rod	120-150	1	30	345	1.9	655.5		
		distribution		1	30	7	30			210
		Main rod	150-180	1	30	345	1.9	655.5		
		distribution		1	30	7	30			210
		Main rod	180-210	1	30	355	1.9	674.5		
		distribution		1	30	7	30			210
		Main rod	210-213	1	3	45	1.9	85.5		
		distribution		1	3	7	3			21
		Main rod	3	1	3	45	1.9	85.5		
		distribution		1	3	7	3			21
	LHS	Main rod	0-30	1	30	355	1.85	656.75		
		distribution		1	30	7	30			210
		Main rod	30-60	1	30	355	1.9	674.5		
		distribution		1	30	7	30			210
		Main rod	60-90	1	30	355	1.9	674.5		
		distribution		1	30	7	30			210
		Main rod	90-120	1	30	355	1.9	674.5		
		distribution		1	30	7	30			210
		Main rod	120-150	1	30	355	1.9	674.5		
		distribution		1	30	7	30			210
		Main rod	150-180	1	30	355	1.9	674.5		
		distribution		1	30	7	30			210
		Main rod	180-210	1	30	355	1.9	674.5		
		distribution		1	30	7	30			210
		Main rod	210-213	1	3	40	1.9	76		
		distribution		1	3	7	3			21
									9523.75	3003
									0.62 kg/cum	0.39kg/cum
									5904.725	1171.17
								= 7076.895 =	7.08	Tonne

20/1/21

20/01/21

Asst. N.D
Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

	Item No.6 (24)	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular slabs /side walls polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge					
	RCC Drain- 15th cross						
	RHS	4	0-30	30.00		0.6	72.00
		4	30-60	30.00		0.6	72.00
		4	60-90	30.00		0.6	72.00
		4	90-120	30.00		0.6	72.00
		4	120-150	30.00		0.6	72.00
		4	150-180	30.00		0.6	72.00
		4	180-210	30.00		0.6	72.00
		4	210-213	3.00		0.6	7.20
	Extra length	4	3	3.00		0.6	21.60
	LHS	4	0-30	30.00		0.6	72.00
		4	30-60	30.00		0.6	72.00
		4	60-90	30.00		0.6	72.00
		4	90-120	30.00		0.6	72.00
		4	120-150	30.00		0.6	72.00
		4	150-180	30.00		0.6	72.00
		4	180-210	30.00		0.6	72.00
		4	210-213	3.00		0.6	7.20
							1044.00

C & R 20/2/21

20/2/21

Assistant Engineer

Assistant Executive Engineer

Assistant Executive ... Kodigehalli Sub ... Brunat Bangalore M... Bangalore ... ra Palike

BRUHAT BANGALORE MAHANAGARA PALIKE

2nd & final

Name of work:- Package-02

1.Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07, Byatarayanapura

2.Improvements to drains of 15th cross Jakkur layout and construction of rain water units and desilting of drains in ward no.07 byatarayanapura.

Est Cost:- 133.00 lakhs

Main ~~bill~~ Direct measurements

W.No.07

MAIN BILL

Name of the work : Improvements to drains from 15th cross in jakkur layout and construction of rain water units and desiltjng of drains in ward no.07, Byatarayanapura

Name of Agency : Ramesh U

JOB CODE: 007-19-000012 AND 007-20-000074

work order amount: 12468819.61 (Excluding GST)

Sl NO	Description of work	ch	Nos	L	B	D	Qty
Item No.1 (21)	Removing and refixing stone slabs of drains and pointing in						
	Qty Vide page no (03) of premeasurements sheet					sqm	4690.20 / 4397.40
Item No.02 (01) (01)	Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.						
	Qty Vide page no - (6) of premeasurements sheet					cum	~~2332.79~~ / 2229.95
Item No.10	Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification						
	Qty Vide page no - (7) of premeasurements sheet					cum	~~2332.79~~ / 2229.95
Item name:-8 (26)	Laying Reinforced cement concrete pipe NP2 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. MORTH						
	Qty Vide page no - (7) of premeasurements sheet					m	45.00
Item name:-9 (12)	Providing 100mm and down size nominal size						
	Qty Vide page no - (7) of premeasurements sheet					cum	4.20
Item name:-10 (13)	Providing 40mm and down size nominal size						
	Qty Vide page no - (7) of premeasurements sheet					cum	1.68
Item name:-11 (14)	Providing 20mm and down size nominal size						
	Qty Vide page no - (7) of premeasurements sheet					cum	1.68
Item name:-12 (15)	Providing Fine aggrgate 2.36mm nominal size						

A.N.D.
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Bruhat Bangalore Mahanagara Palike
Bangalore - 560 0[illegible]

	Qty Vide page no (8) of premeasurements sheet					cum	1.26
Item No.04 (22)	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications.						
	RCC Drain- 15th cross						
	RHS	1	0-30	30.00	0.75	0.15	3.38
	Bottom concrete	1	30-60	30.00	0.75	0.15	3.38
		1	60-90	30.00	0.75	0.15	3.38
		1	90-120	30.00	0.75	0.15	3.38
		1	120-150	30.00	0.75	0.15	3.38
		1	150-180	30.00	0.75	0.15	3.38
		1	180-210	30.00	0.75	0.15	3.38
		1	210-213	3.00	0.75	0.15	0.34
	Extra length	1	3	3.00	0.75	0.15	1.01
	Side wall	2	0-30	30.00	0.15	0.51	4.59
		2	30-60	30.00	0.15	0.48	4.32
		2	60-90	30.00	0.15	0.55	4.95
		2	90-120	30.00	0.15	0.55	4.95
		2	120-150	30.00	0.15	0.63	5.67
		2	150-180	30.00	0.15	0.63	5.67
		2	180-210	30.00	0.15	0.65	5.85
		2	210-213	3.00	0.15	0.72	0.65
		2	3	3.00	0.15	0.72	1.94
	LHS	1	0-30	30.00	0.75	0.15	3.38
	Bottom concrete	1	30-60	30.00	0.75	0.15	3.38
		1	60-90	30.00	0.75	0.15	3.38
		1	90-120	30.00	0.75	0.15	3.38
		1	120-150	30.00	0.75	0.15	3.38
		1	150-180	30.00	0.75	0.15	3.38
		1	180-210	30.00	0.75	0.15	3.38
		1	210-213	3.00	0.75	0.15	0.34
	Side wall	2	0-30	30.00	0.15	0.52	4.68
		2	30-60	30.00	0.15	0.57	5.13
		2	60-90	30.00	0.15	0.61	5.49
		2	90-120	30.00	0.15	0.57	5.13
		2	120-150	30.00	0.15	0.61	5.49
		2	150-180	30.00	0.15	0.62	5.58
		2	180-210	30.00	0.15	0.65	5.85
		2	210-213	3.00	0.15	0.71	0.64

125.52

c & pc 15/2/21

C&PC. 13/2/21

Executive Engineer

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

							125.52
	Ramps infront of house	1		18	0.45	0.15	1.22
		1		15	0.6	0.15	1.35
		1		10	0.6	0.15	0.90
							128.08

Item No.7 Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (Data Rate Approved)

	RCC Drain- 15th cross						
	RHS		0-30	50	0.6	0.9	27.00
			30-60	0	0.6	0.9	0.00
			60-90	11	0.6	0.9	5.94
			90-120	50	0.6	0.9	27.00
			120-150	50	0.6	0.9	27.00
			150-180	50	0.6	0.9	27.00
			180-210	50	0.6	0.9	27.00
			210-213	5	0.6	0.9	2.70
	Extra length		3	5	0.6	0.9	2.70
	LHS		0-30	50.00	0.6	0.9	27.00
			30-60	50.00	0.6	0.9	27.00
			60-90	50.00	0.6	0.9	27.00
			90-120	50.00	0.6	0.9	27.00
			120-150	50.00	0.6	0.9	27.00
			150-180	50.00	0.6	0.9	27.00
			180-210	50.00	0.6	0.9	27.00
			210-213	5.00	0.6	0.9	2.70
	14th cross			50.00	0.6	0.75	22.50
				50.00	0.6	0.75	22.50
				30.00	0.6	0.75	13.50
							396.54

Executive Engineer

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

BRUHAT BANGALORE MAHANAGARA PALIKE

2nd & final

J. Ramesh

Name of work:- Package-02

1.Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07, Byatarayanapura

2.Improvements to drains of 15th cross Jakkur layout and construction of rain water units and desilting of drains in ward no.07 byatarayanapura.

Est Cost:- 133.00 lakhs

ABSTRACT

BRUHAT BANGALORE MAHANAGARA PALIKE					
KODIGEHALLI SUB DIVISION- WARD 7 BYATARAYANAPURA					
Name of work		Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains in ward no.07 Byatarayanapura			
Second ~~First~~ and final bill		Work order amt: 12468819.61 (Excluding GST)			
Job code		007-19-000012 AND 007-20-000074			
P-code		P3522			
Agency		Sri. Ramesh U			
SI NO	Description	unit	Qty	RATE	AMOUNT
1	Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications..				
	Name of work	cum			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07, Byatarayanapura 1st & part		780.01		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		2229.95		
	Present Qty		780.01		
	Previous Qty		0.00		
	Total Qty	309.96	780.01		
	BOQ Qty		3013.80		
	Now To Be Paid Qty		2229.95	144.65	322562.27
2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration inlcuding curing for 14 days including cost of all materials labour, HOM curing, form works, scaffolding and centering complete as per specification				
	Name of work	cum			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07, Byatarayanapura 1st & Part		122.54		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		61.99		
	Present Qty		184.523		
	Previous Qty		0.00		
	Total Qty		184.53		
	BOQ Qty		186.36		352808.03
	Now To Be Paid Qty		61.99	5691.37	352793.80

Assistant Engineer

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
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3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.7.5 cm thick.				
	Name of work	Sqm			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07, Byatarayanapura 1st & Part		1903.50		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		0.00		
	Present Qty		1903.50		
	Previous Qty		0.00		
	Total Qty		1903.50		
	BOQ Qty		1903.50		
	Now To Be Paid Qty		**0.00**	**5691.37**	**0.00**
4	Providing and constructing load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work				
	Name of work	Sqm			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07, Byatarayanapura 1st & Part		183.20		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		0.00		
	Present Qty		183.20		
	Previous Qty		0.00		
	Total Qty		183.20		
	BOQ Qty		183.20		
	Now To Be Paid Qty		**0.00**	**902.39**	**0.00**
5	Providing granite slabs of selected quality roughly dressed and fix-10cms thick xed in cement mortar (1:6) including fixing curing etc.				
	Name of work	sqm			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07, Byatarayanapura 1st & Part		990.00		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		0.00		
	Present Qty		990.00		
	Previous Qty		0.00		
	Total Qty		990.00		
	BOQ Qty		990.00		
	Now To Be Paid Qty		**0.00**	**1014.77**	**0.00**

Ashwini. N.D

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

6	Providing one line dressing to granite stone slabs/granite stone masonry as per specification.				
	Name of work	sqm			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07, Byatarayanapura 1st & part		1373.85		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		0.00		
	Previous Qty		0.00		
	Total Qty		0.00		
	BOQ Qty		1374.00		
	Now To Be Paid Qty		**0.00**	**998.08**	**0.00**
7	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 of size 450x200x400 mm and finished with CM 1:3 plastering and finishing cutting				
	Name of work	nos			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07, Byatarayanapura 1st & part		4037.00		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		0.00		
	Previous Qty		0.00		
	Total Qty		4037.00		
	BOQ Qty		4072.00		
	Now To Be Paid Qty		**0.00**	**490.69**	**0.00**
8	:Providing and applying ready mix priming coat over ocncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specification				
	Name of work	sqm			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07, Byatarayanapura 1st & part		1812.15		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		0.00		
	Previous Qty		0.00		
	Total Qty		1812.15		
	BOQ Qty		1832.40		
	Now To Be Paid Qty		**0.00**	**41.17**	**0.00**

N.D

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Assistant Executive Engineer

9	Providing and fixing MS Grating 260x260 mm				
	Name of work	nos			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07, Byatarayanapura 1st to past		254.00		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains		0.00 50.00		
	Previous Qty		254.00		
	Total Qty		254 304.00		
	BOQ Qty		360.00		0400
	Now To Be Paid Qty		50.00	88.96	4448.00
10	Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification				
	Name of work	cum			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07, Byatarayanapura 1st to Past		780.01		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd to final		2229.95		
	Previous Qty		780.01		
	Total Qty		3009.96		
	BOQ Qty		3013.80		
	Now To Be Paid Qty		2229.95	99.03	220831.95
11	Laying Reinforced cement concrete pipe NP3 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. MORTH Specification No. 2900 B. 1200 mm dia				
	Name of work	mtr			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07, Byatarayanapura 1st to past		54.00		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd to final		0.00		
	Previous Qty		54.00		
	Total Qty		0.00		
	BOQ Qty		54.00		
	Now To Be Paid Qty		0.00	3858.78	0.00

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Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

12	Providing 100mm and down size nominal size				
	Name of work	cum			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07. Byatarayanapura 1st & part		6.05		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		4.20		
	Present Qty		4.20		
	Previous Qty		6.05		
	Total Qty		10.25		
	BOQ Qty		10.32		
	Now To Be Paid Qty		**4.20**	**1036.70**	**4354.14**
13	Providing 40mm and down size nominal size				
	Name of work	cum			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07. Byatarayanapura 1st & part		3.02		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		1.68		
	Present Qty		1.68		
	Previous Qty		3.02		
	Total Qty		4.70		
	BOQ Qty		4.75		
	Now To Be Paid Qty		1.68	1145.67	1924.73
14	Providing 20mm and down size nominal size				
	Name of work	cum			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07. Byatarayanapura 1st & part		1.98 2.02		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		1.68		
	Present Qty		1.68		
	Previous Qty		1.98 2.02		
	Total Qty		3.66 3.70		
	BOQ Qty		3.73		
	Now To Be Paid Qty		1.68	1145.67	1924.73
15	Providing Fine aggrgate 2.36mm nominal size				
	Name of work	cum			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07. Byatarayanapura 1st & part		1.44 1.51		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		1.26		
	Present Qty		1.26		
	Previous Qty		1.44 1.51		
	Total Qty		2.70 2.77		
	BOQ Qty		2.80		
	Now To Be Paid Qty		1.26	1106.69	1394.43

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16	Direction and place identification signs upto 0.9 sqm size Board - Providing and erecting direction and place identification retro-reflectorised signs as per revised IRC : 67-2012 made of high intensity grade sheeting vide clause 800.1.3. fixed over aluminium sheeting. 2mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75x75x6mm firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 45x45x60cm, 60cm below ground level as per approved drawing complete as per specifications. MORTH Specification No.801 Type IV sheeting				
	Name of work	nos			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07. Byatarayanapura 1st & Part		36.00		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		0.00		
	Present Qty		0.00		
	Previous Qty		36.00		
	Total Qty		36.00		
	BOQ Qty		36.00		
	Now To Be Paid Qty		**0.00**	**7636.34**	**0.00**
17	Providing and applying readymix priming coat concrete / masonry / asbestos cement sheet /plasterd surface including preparing the surface after throughly cleaning of oil grease dirt and other foreign matter and sand papering cost of materials labour as per specifications				
	Name of work	sqm			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07. Byatarayanapura 1st & Part		305.20		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		0.00		
	Present Qty		0.00		
	Previous Qty		305.20		
	Total Qty		305.20		
	BOQ Qty		305.20		
	Now To Be Paid Qty		**0.00**	**41.17**	**0.00**
18	supplying MS pipe.code no.256				
	Name of work	nos			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07. Byatarayanapura 1st & Part		3770.00		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		0.00		
	Present Qty		0.00		
	Previous Qty		3770.00		
	Total Qty		3770.00		
	BOQ Qty		3770.00		
	Now To Be Paid Qty		0.00	88.96	0.00

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19	Painting on Steel surface :- Providing and applying two coats of ready mix paint of approved brand after through cleaning of surface to give an even shade complete as per specifications.complete as per specifications.				
	Name of work	sqm			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07, Byatarayanapura 1st u-post		401.20		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd u-final		0.00		
	Present Qty		0.00		
	Previous Qty		401.20		
	Total Qty		401.20		
	BOQ Qty		401.20		
	Now To Be Paid Qty		**0.00**	**80.11**	**0.00**
20	Painting new latter and figures any shade with synthetic enamel paint black or any approvel colour to give an even shede complete as per specification (1) Hindi (Matras commas and the like not to be measured and paid for half latter shall be counted as half)				
	Name of work	cum			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07, Byatarayanapura 1st u-post		63000.00		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd u-final		0.00		
	Present Qty		0.00		
	Previous Qty		63000.00		
	Total Qty		63000.00		
	BOQ Qty		63000.00		
	Now To Be Paid Qty		0.00	**1.11**	**0.00**
21	Removing and refixing stone slabs of drains and pointing in CM.				
	Name of work	sqm			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07, Byatarayanapura 1st u-post		0.00		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd u-final		4397.40		
	Present Qty		4397.40		
	Previous Qty		0.00		
	Total Qty		4397.40		
	BOQ Qty		4397.40		
	Now To Be Paid Qty		**4397.40**	**116.83**	**513748.24**

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21	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.7.5 cm thick.				
	Name of work	sqm			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07. Byatarayanapura 1st & Part		1903.50		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		0.00		
	Present Qty		0.00		
	Previous Qty		1903.50		
	Total Qty		1903.50		
	BOQ Qty		1903.50		
	Now To Be Paid Qty		0.00	778.88	0.00
22	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed. concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc.. including cost of all materials labour HOM of machinery curing complete as per specifications.				
	Name of work	cum			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07. Byatarayanapura 1st & Part		0.00		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		128.08		
	Present Qty		128.08		
	Previous Qty		0.00		
	Total Qty		128.08		
	BOQ Qty		128.70		80 6477.49
	Now To Be Paid Qty		128.08	6296.67	806499.53

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23	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications measurement Page : 09				
	Name of work	tonne			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07. Byatarayanapura 1st & Part		0.00		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		7.08		
	Present Qty		7.08		
	Previous Qty		0.00		
	Total Qty		7.08		
	BOQ Qty		7.08		55 9055.1
	Now To Be Paid Qty		7.08	78962.59	558731.00
24	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular slabs /side walls polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge measurement Page - 11				
	Name of work	sqm			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07. Byatarayanapura 1st & Part		0.00		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		1044.00		
	Present Qty		1044.00		
	Previous Qty		0.00		
	Total Qty		1044.00		
	BOQ Qty		1056.00		
	Now To Be Paid Qty		1044.00	507.38	529704.72

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25	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (Data Rate Approved)				
	Name of work	sqm			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07. Byatarayanapura 1st & Part		0.00		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		396.54		
	Present Qty		396.54		
	Previous Qty		0.00		
	Total Qty		396.54		
	BOQ Qty		396.90		
	Now To Be Paid Qty		396.54	2204.37	874120.88
26	Laying Reinforced cement concrete pipe NP2 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation. protection works. backfilling. concrete and masonry works in head walls and parapets complete as per specifications. MORTH Specification No. 2900 B. 1200 mm dia				
	Name of work	m			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07. Byatarayanapura 1st & Parts		0.00		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		45.00		
	Present Qty		45.00		
	Previous Qty		0.00		
	Total Qty		45.00		
	BOQ Qty		45.00		
	Now To Be Paid Qty		45.00	6273.30	282298.50
27	Providing and fixing MS Grating 260x260 mm				
	Name of work	nos			
	Improvements to drains 1st to 3rd cross roads in Amruthanagara A sector in ward no.07. Byatarayanapura 1st & Parts		0.00		
	Improvements to drains 15th cross in Jakkur layout and ocnstruction of rain water units and desilting of drains 2nd & final		100.00 120.00		
	Present Qty		100 120.00		
	Previous Qty		0.00		
	Total Qty		100 120.00		9431.00
	BOQ Qty		120.00		11317.20
	Now To Be Paid Qty		100 120.00	94.31	4486654.10
			Total		4480636.25

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